0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.162)
0-5	Petition	(20110 0002:102)
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Korean Intellectual Property Office (RO/KR)
0-7	Applicant's or agent's file reference	P12047-PCT
1	Title of Invention	METHOD FOR PROVIDING MULTI-LEVEL ACCESS SERVICES IN COMMON ACCESS CHANNEL
11	Applicant	
11-1	This person is:	applicant only
11-2	Applicant for	all designated States except US
11-4	Name:	SAMSUNG ELECTRONICS CO., LTD.
II-5	Address:	416, Maetan-dong, Yeongtong-gu, Suwon-si Gyeonggi-do442-742 Republic of Korea
11-6	State of nationality	KR
11-7	State of residence	KR
11-8	Telephone No.	82-31-279-5042
11-9	Facsimile No.	82-31-279-6974
II-10	e-mail	patrickpark@samusung.com

III-1	Applicant and/or inventor	
III-1-1		annligent le
III-1-2		applicant only
III-1-4	Name:	all designated States except US
III-1-5	Address:	Beijing Samsung Telecom R&D Center
		4F Science and Technology Tower, No.11 Zhongguancun Nan Lu, Haidian District 100081 Beijing China
III-1-6	State of nationality	CN
III-1-7	State of residence	CN
111-2	Applicant and/or inventor	
111-2-1	This person is:	applicant and inventor
111-2-2	Applicant for	US only
111-2-4	Name (LAST, First)	KOO, Chang-Hoi
111-2-5	Address:	2nd El 241 0
		2nd Floor, 241-8, Jeongja-dong, Pundang- gu, Seongnam-si Gyeonggi-do463-010 Republic of Korea
III-2-6	State of nationality	KR
III-2-7	State of residence	KR
111-3	Applicant and/or inventor	
111-3-1	This person is:	applicant and inventor
111-3-2	Applicant for	US only
111-3-4	Name (LAST, First)	LIAO, Jingyi
111-3-5	Address:	4F Science and Technology Tower, No.11
		Zhongguancun Nan Lu, Haidian District 100081 Beijing China
111-3-6	State of nationality	CN
111-3-7	State of residence	CN
111-4	Applicant and/or inventor	
111-4-1	This person is:	applicant and inventor
111-4-2	Applicant for	US only
111-4-4	Name (LAST, First)	WANG, Hai
III-4-5	Address:	4F Science and Technology Tower, No.11 Zhongguancun Nan Lu, Haidian District 100081 Beijing China
III-4 <b>-</b> 6	State of nationality	CN
111-4-7	State of residence	CN

III-5-1 III-5-2 III-5-5 III-5-5 III-5-5 III-5-5 III-5-5 III-5-5 III-5-5 III-5-6 III-5-6 III-5-6 III-5-7 III-5-7 III-5-7 III-5-7 III-6-8 III-6-9 III-6-9 III-6-9 III-6-1 III-6-2 III-6-1 III-6-2 III-6-1 III-6-	111-5	Applicant and/or inventor		
III-5-2   Applicant for   Name (LAST, First)   PARK, Dong-Seek   SK 107-1802, Seocheon-ri, Giheung-eup, Yongin-si   Gyeonggi-do449-906   Republic of Korea   KR     III-5-6   State of nationality   KR     III-6-7   State of residence   KR     III-6-8   Applicant and/or inventor   This person is:   applicant and inventor   US only     III-6-6   Applicant for   US only   CHOI, Ho-Kyu     Address:   #351-603, Shinbanpo 27-cha APT., 56-2, Jamwon-dong, Seocho-gu   Seoull37-030   Republic of Korea   KR     III-6-6   State of nationality   KR     III-6-7   State of residence   KR     IV-1   Agent or common representative: or address for correspondence   The person identified below is hereby has been appointed to act on behalf of the applicant(s) before the completent international Authorities as:     IV-1-1   Telephone No.   Address:   Addre	III-5-1			
III-5-5	111-5-2			
SK 107-1802, Seocheon-ri, Giheung-eup, Yongin-si Gyeonggi-do449-906 Republic of Korea KR   State of residence   KR   Applicant and/or inventor   This person is:   Applicant for   US only	111-5-4	Name (LAST, First)		
	111-5-5	Address:	1	
			SK 107-1802, Seocheon-ri, Giheung-eup,	
III-5-6   State of nationality   KR     III-5-7   State of residence   KR     III-6-1   This person is:   Applicant and/or inventor   This person is:   Applicant for   US only     III-6-5   CHOI, Ho-Kyu     III-6-5   Address:   4351-603, Shinbanpo 27-cha APT., 56-2, Jamwon-dong, Seocho-gu Seoull37-030     III-6-6   State of nationality   KR     III-6-7   Agent or common representative; or address for correspondence   The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:     IV-1-1   Address:   LEE, Keon-Joo     IV-1-2   Address:   LEE, Keon-Joo     IV-1-3   Telephone No.   82-2-744-0305     IV-1-4   Facsimile No.   82-2-743-5247     IV-1-5   DESIGNATIONS     V-1   The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of text applicable, for the grant of both			Yongin-si	
II-5-6  State of residence   KR     II-6-1  Applicant and/or inventor     II-6-2  Applicant for   US only     II-6-2  Applicant for   US only     II-6-3  Address:			Gyeonggi-do449-906	
III-6-7   State of residence   KR   KR     III-6-1   This person is:   Applicant and/or inventor   This person is:   Applicant for   US only     III-6-2   CHOI, Ho-Kyu   #351-603, Shinbanpo 27-cha APT., 56-2, Jamwon-dong, Seocho-gu   Seoull37-030   Republic of Korea   KR     III-6-5   State of nationality   KR   KR     III-6-7   State of residence   KR   KR     III-6-7   State of residence   KR   KR     IV-1   Agent or common representative; or address for correspondence   The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:     IV-1-1   Name (LAST, First)   LEE, Keon-Joo     IV-1-2   Address:   Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu   Seoull110-524     Republic of Korea   82-2-744-0305     Republic of Korea   82-2-743-5247     Kyl-1-5   The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international Author the grant of both   PCT on the international filing date, for the grant of both   Facsimile No.   Facsimile No.   Facsimile No.   Contracting States bound by the PCT on the international filing date, for the grant of both   Facsimile No.   Facsim	111 5 6	State of action alls	Republic of Korea	
III-6-1				
III-6-1 III-6-2 Applicant for III-6-4 Name (LAST, First) Address:  III-6-5  III-6-6 III-6-6 III-6-7 State of nationality III-6-7 III-6-7 III-6-7 III-6-8 III-6-7 III-6-8 III-6-7 III-6-9 III-6-7 III-6-9 III-6-9 III-6-7 III-6-9 III-6-7 III-6-9 III-6-9 III-6-7 III-6-9 III-6-9 III-6-9 III-6-9 III-6-9 III-6-9 III-6-9 III-6-1 III-6-9 III-6-1 III-6-9 III-6-1 III-6-1 III-6-1 III-6-1 III-6-1 III-6-1 III-6-1 III-6-1 III-6-2 III-6-2 III-6-3 III-6-3 III-6-3 III-6-3 III-6-3 III-6-3 III-6-3 III-6-4 III-6-7 III-6-9 III-6-1 III-6-9 III-6-9 III-6-9 III-6-9 III-6-9 III-6-9 III-6-9 III-6-1 III-6-9 III-6			KR	
III-6-2   Applicant for   US only   CHOI, Ho-Kyu   #351-603, Shinbanpo 27-cha APT., 56-2, Jamwon-dong, Seocho-gu   Seoull37-030   Republic of Korea   KR   KR   KR   III-6-7   State of residence   KR   KR   IV-1   Agent or common representative; or address for correspondence   The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:   Name (LAST, First)   LEE, Keon-Joo   Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu   Seoull10-524   Republic of Korea   Seoull10-524   Republic				
III-6-2 Applicant for Name (LAST, First)  Address: #351-603, Shinbanpo 27-cha APT., 56-2, Jamwon-dong, Seocho-gu Seouli37-030 Republic of Korea  III-6-6 State of nationality KR  III-6-7 State of residence  IV-1 Agent or common representative; or address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:  IV-1-1 IV-1-2 Address:  IV-1-3 Telephone No.  IV-1-4 Facsimile No.  IV-1-5 e-mail V DESIGNATIONS  V-1 The filing of this request constitutes uselength and of protection available and, where applicable, for the grant of every kind of protection available and, where applicable, for the grant of both	111-6-1	This person is:	applicant and inventor	
III-6-5   Address:	111-6-2			
Hi-6-5		Name (LAST, First)	сної, но-куш	
III-6-6   State of nationality   State of residence   KR     IV-1   Agent or common representative; or address for correspondence   The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:   Name (LAST, First)   LEE, Keon-Joo     IV-1-2   Address:   Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu   Seoul110-524   Republic of Korea     IV-1-3   Telephone No.   82-2-744-0305   82-2-743-5247     IV-1-5   e-mail   Kjlp@leepat.co.kr     V DESIGNATIONS   DESIGNATIONS   DESIGNATIONS   DESIGNATIONS   The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filling date, for the grant of every kind of protection available and, where applicable, for the grant of both   The filling of the grant of both   The filling	III-6-5	Address:	#351-603, Shinbanno 27-cha APT 56 2	
Seoull137-030   Republic of Korea			Jamwon-dong, Seocho-gu	
III-6-6   State of nationality   KR     III-6-7   State of residence   KR     IV-1   Agent or common representative; or address for correspondence   The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:   Name (LAST, First)   LEE, Keon-Joo     IV-1-2   Address:   Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu   Seoul110-524   Republic of Korea     IV-1-3   Telephone No.   82-2-744-0305   82-2-743-5247     IV-1-4   Facsimile No.   82-2-743-5247     IV-1-5   e-mail   V   DESIGNATIONS     V-1   The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both				
III-6-6   State of nationality   KR     III-6-7   State of residence   KR     IV-1   Agent or common representative; or address for correspondence   The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:   Name (LAST, First)   LEE, Keon-Joo     IV-1-2   Address:   Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu   Seoul110-524   Republic of Korea     IV-1-3   Telephone No.   82-2-744-0305   82-2-743-5247     IV-1-4   Facsimile No.   82-2-743-5247     IV-1-5   e-mail   V   DESIGNATIONS     V-1   The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both			Republic of Korea	
IV-1-1 Agent or common representative; or address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:  IV-1-1 Name (LAST, First)  IV-1-2 Address:  IV-1-3 Telephone No.  IV-1-4 Facsimile No.  IV-1-5 e-mail  V DESIGNATIONS  V-1 The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filling date, for the grant of every kind of protection available and, where applicable, for the grant of both	111-6-6	State of nationality		
address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:  IV-1-1 IV-1-2 Address:  LEE, Keon-Joo Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu Seoul110-524 Republic of Korea  IV-1-3 IV-1-4 Facsimile No. 82-2-744-0305 82-2-744-0305 82-2-743-5247 V-1-5 e-mail V DESIGNATIONS V-1 The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both			KR	
The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:  IV-1-1 IV-1-2 IV-1-2 Address:  IV-1-3 IV-1-4 IV-1-5 IV-1-5 IV-1-5 IV-1-6 IV-1-7 IV-1-7 IV-1-7 IV-1-7 IV-1-8 IV-1-8 IV-1-9 IV-1-9 IV-1-9 IV-1-9 IV-1-9 IV-1-9 IV-1-9 IV-1-1 IV-1-1 IV-1-1 IV-1-1 IV-1-1 IV-1-1 IV-1-2 IV-1-2 IV-1-2 IV-1-3 IV-1-4 IV-1-5 IV-1-5 IV-1-6 IV-1-7 IV-1-7 IV-1-7 IV-1-8 IV-1-8 IV-1-9	IV-1	Agent or common representative; or address for correspondence		
has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:  IV-1-1 IV-1-2 IV-1-2 IV-1-3 IV-1-3 IV-1-4 Facsimile No. IV-1-5 Pe-mail IV-1-5  DESIGNATIONS V-1 The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both		The person identified below is hereby/	agent	
International Authorities as: Name (LAST, First)  IV-1-2  Address:  Mi hwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu Seoul110-524 Republic of Korea  IV-1-3  IV-1-4  Facsimile No.  V DESIGNATIONS  V-1  The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both		has been appointed to act on behalf of	ugenc	
IV-1-1 IV-1-2 Name (LAST, First) Address:  LEE, Keon-Joo Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu Seoul110-524 Republic of Korea  82-2-744-0305 IV-1-4 Facsimile No. e-mail  V DESIGNATIONS  V-1 The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both		International Authorities as:		
Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu Seoull10-524 Republic of Korea  82-2-744-0305  IV-1-4 Facsimile No. 82-2-743-5247 kjlp@leepat.co.kr  V DESIGNATIONS  V-1 The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both	IV-1-1	Name (I AST Fire)	LEE. Keen-Joo	
IV-1-3  Telephone No.  Telephone No.  Secull 110-524  Republic of Korea  82-2-744-0305  82-2-743-5247  IV-1-5  Pe-mail  V DESIGNATIONS  V-1  The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both	IV-1-2	A -4 -4		
IV-1-3 Telephone No.  IV-1-4 Facsimile No.  Pe-mail  V  DESIGNATIONS  V-1  The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both  Seoull110-524 Republic of Korea  82-2-744-0305 82-2-743-5247 kjlp@leepat.co.kr			Change Bidg. 110-2, Myongryun-dong 4-ga,	
IV-1-3 Telephone No.  IV-1-4 Facsimile No. e-mail  V  DESIGNATIONS  V-1  The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both  Republic of Korea  82-2-744-0305  82-2-743-5247  kjlp@leepat.co.kr			Chongro-gu	
IV-1-3 IV-1-4 Facsimile No.  E-mail  V DESIGNATIONS  V-1  The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both  82-2-744-0305 82-2-743-5247 kjlp@leepat.co.kr				
IV-1-4 Facsimile No.  e-mail  V DESIGNATIONS  V-1  The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both  82-2-743-5247  kjlp@leepat.co.kr	IV-1-3	ITologhana Na		
V DESIGNATIONS  V-1 The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both	IV-1-4	Eggsimile No.		
V DESIGNATIONS  V-1 The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both	IV-1-5	o mail		
under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both	V	DESIGNATIONS	J-F	
all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both		The filing of this request constitutes		
PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both	l	under Rule 4.9(a), the designation of		
for the grant of every kind of protection available and, where applicable, for the grant of both		PCT on the international filing date		
protection available and, where applicable, for the grant of both		for the grant of every kind of		
regional and national patents.	1	protection available and, where		
patents.	į.	applicable, for the grant of both		

VI-1	Priority claim of earlier national application		
VI-1-1	Filing date	09 May 2003 (00 05 )	2002
VI-1-2	Number	09 May 2003 (09.05.:	2003)
VI-1-3	Country	03123613.8	
		CN	
VII-1	International Searching Authority Chosen	Korean Intellectual (ISA/KR)	Property Office
VIII	Declarations	Number of declarations	1
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
X	Check list	number of sheets	electronic file(s) attached
X-1	Request (including declaration sheets)	5	✓
X-2	Description	29	
X-3	Claims	13	_
X-4	Abstract	1	
<b>&lt;-5</b>	Drawings	12	<i>_</i>
<b>K-7</b>	TOTAL	60	-
	Accompanying Items	paper document(s) attached	
K-8	Fee calculation sheet		electronic file(s) attached
<b>(-9</b>	Original separate power of attorney	· · · · · · · · · · · · · · · · · · ·	<u>-</u>
<b>(-11</b>	Copy of general power of attorney	/	-
<b>ζ-13</b>	Priority document(s)		-
(-17	PCT-SAFE physical media	Item(s) VI-1	
		-	✓
<b>(-19</b>	Figure of the drawings which should accompany the abstract	5a	
<b>(-20</b>	Language of filing of the international application	Korean	

# Original (for SUBMISSION )

X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)	LEE, Keon-Joo	
X-1-2	Name of signatory		
X-1-3	Capacity		

# FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/KR
10-6	Transmittal of search copy delayed until search fee is paid	

#### FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by	
	the International Bureau	

PCT (ANNEX - FEE CALCULATION SHEET)

Original (for SUBMISSION)

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only			- i	
0-1	International Application No.				
0-2	Date stamp of the receiving Office				
0-4	Form PCT/RO/101 (Annex)				
•	PCT Fee Calculation Sheet				
0-4-1	Prepared Using		PCT-SAFE [EAST	Y mode] (Build 0002.16	
0-9	Applicant's or agent's file reference	e	P12047-PCT	(Bullu 0002.16	2)
2	Applicant			RONICS CO., LT	<u> </u>
12	Calculation of prescribed fees		fee amount/muliplier		υ.
12-1	Transmittal fee	T	to amount marpher	Total amounts (KRW)	
12-2-1	Search fee	s	40	45000 225000	
12-2-2	International search to be carried out	<b>h</b>		225000	
12-3	I	υу	KR		
12-3	International filing fee (first 30 sheets)	i1	1329000		
12-4	Remaining sheets		30		
12-5	Additional amount	(X)	14000		
12-6	Total additional amount	i2	420000		
12-7	i1 + i2 =	i	1749000		
12-12	EASY Filing reduction	R	-95000		
12-13	Total International filing fee (i-R)	1	€>	1654000	
12-14	Fee for priority document			1034000	
	Number of priority documents requested		0		
2-15	Fee per document	(X)	0		
12-16	Total priority document fee:	Р	45		
2-17	TOTAL FEES PAYABLE (T+S+I+P)		4>	1924000	
2-19	Mode of payment		cash		

13-2-1	Validation messages Request	Green? A translation of the int'l application into (one of) the following language(s) must be furnished within one month of the date of receipt by the receiving Office: English
	Validation messages Request	Green? A translation of the international application into English will have to be prepared under the responsibility of the ISA selected.
	Validation messages Request	Green? Please note that the entire request (including the title of invention) must be in English
13-2-3	Validation messages Names	Green? Applicant 2: Name should preferably be entered in capital letters. Please verify.
13-2-4	Validation messages Priority	Yellow! Priority 1: The twelve-month time limit for claiming priority would appear to have expired. Please verify.
13-2-7	Validation messages Contents	Green? Reference number for attached copy of general power of attorney not indicated.